

# PATENT ABSTRACTS OF JAPAN

(11)Publication number : 2000-007790

(43)Date of publication of application : 11.01.2000

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(51)Int.Cl.

C08J 3/20  
C08J 3/12

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(21)Application number : 10-181868

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(22)Date of filing : 29.06.1998

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## (54) PREPARATION OF WATER-ABSORBING RESIN

### (57)Abstract:

**PROBLEM TO BE SOLVED:** To achieve excellent water absorption under atmospheric pressure or an elevated pressure and excellently small time-dependence of water absorption during operation by adding a chelating agent when recycling a gelled or fine polymer which generates in a preparation process of a water-absorbing resin.

**SOLUTION:** This water-absorbing resin is required to have a carboxy group so that the resin absorbs a lot of water in water to form a hydrogel and such an example is a partially neutralized crosslinked polyacrylic acid or the like. A content of the carboxy group is not limited but is preferably not less than 0.01 equivalent per 100 g of the water-absorbing resin. The water-absorbing resin is preferably a resin on which an extremely small amount of an intra-crosslinking agent containing not less than 2 polymerizable unsaturated groups or not less than 2 reactive groups is made to copolymerize or react rather than a resin which is self-crosslinkable without use of a crosslinking agent. A chelating agent to be used is an aminocarboxylic acid or the like and the amount thereof is 0.0001-10 pts.wt. per 100 pts.wt. of a product to be recycled.

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## LEGAL STATUS

[Date of request for examination]

[Date of sending the examiner's decision of rejection]

[Kind of final disposal of application other than the examiner's decision of rejection or application converted registration]

[Date of final disposal for application]

[Patent number]

[Date of registration]

[Number of appeal against examiner's decision of rejection]

[Date of requesting appeal against examiner's decision of rejection]

[Date of extinction of right]